

Movement Sensor Switch

Thank you for purchasing the Movement Sensor Switch. With this step towards energy efficiency you have joined the increasing number people who prefer green and smart living.

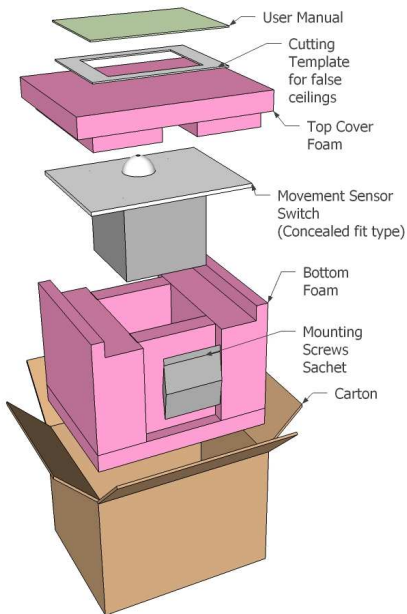
Packing contains:

User Manual: Please read this manual before using product.

Cutting Template for false ceilings: Use this for accurate marking of cuts in false ceilings

Mounting Screws: (Provided in a sachet) Both self-threading screws and nut-bolts are provided. Use appropriately for different types of false ceiling material.

Movement Sensor: Concealed fit type for false ceilings and RCC Ceilings.



Product description

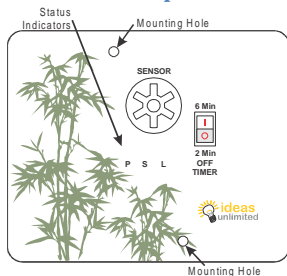


Figure 1: Front view

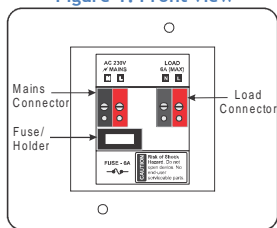
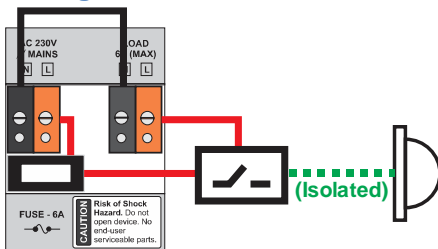


Figure 2: Back View

Internal Wiring reference



Status Indicators:

| | | |
|---|--|---------------|
| P | | Power (White) |
| S | | Sense (Blue) |
| L | | Load (Red) |

Off Timer: 2 Minutes or 6 Minutes.

Mounting holes: Mount the unit to ceiling using this.

Mains Connector:

Recommended: 230V AC, 50HZ (110V-230V Wide range)

Load Connector:

Recommended: 600W load max.

Fuse: 6A Glass fuse in socket

Technical Specification

| Parameter | Value |
|--------------------|--|
| Sensor Range: | MS201-W6A: 20'X20' maximum MS201-M6A: 14'X14' maximum MS201-N6A: 08'X08' maximum |
| Operating Voltage | 110-230V AC, 50-60Hz (Wide Voltage range) |
| Load Capacity: | 600 Watts Maximum |
| Unit Dimensions: | Product: 60 x 67 x 60 mm Mask: 120 x 100 mm |
| Off Timer Options: | 2 Minutes for areas with high activity 6 Minutes for areas with low activity |
| Power Consumption | Standby mode: 50-100 milli-Watts Active mode: 350-450 milli-Watts |
| Safety Features: | 1) 6A Glass Fuse (user-replaceable) present to prevent short-circuit/overloading 2) Higher rating connectors and contacts for safety and reliability. 3) Shock proof (end user useable) connectors 4) Complete electrical isolation between Sensing and switching circuit |

Using the cutting template to mark on false ceilings

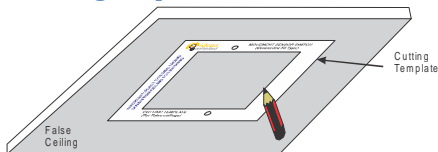





Figure 3: Using the cutting template for marking on ceiling

1. Place the cutting template on false ceiling with the printed markings facing downwards from the ceiling. (See instructions on the cutting template)
2. Mark the slot and two mounting holes using a pencil.
3. **Mounting the unit:** If material is hard (Gypsum etc), use self threading type screws to mount the unit. If

the false ceiling material is thin (thermo coal or similar material) use the nuts and bolts to mount.

Sensor coverage area

The sensor used is a passive sensor. It does not emit any light or any form of energy). It focuses Infra-red emitted by surroundings on to an IR sensitive photo cell. Based on the model of your unit, the range is specified below.

| Sensor | Coverage Area | Illustration | Models |
|--------|--|---|-----------|
| Wide | (20'X20' approx.) basement, parking lots etc. |  | MS201-W6A |
| Medium | Typical room (14'X14' approx.) |  | MS201-M6A |
| Narrow | Zone within a typical room. (8'X8' approx.) |  | MS201-N6A |

Simple Installation

Schematic below indicates how to connect the unit in a simple configuration where the device controls only one load.

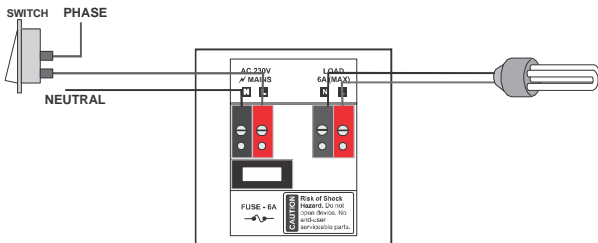


Figure 4: Schematic for simple installation to control one device

Note: We recommend you to retain the switch in your wall for the lighting so that it helps in complete switching off of the lights and the movement sensor unit.

Advanced Installation retaining existing switches

The unit is also designed to seamlessly integrate into your existing electrical wiring and control room. The Schematic below shows how to install the unit in a room with existing wiring and switches.

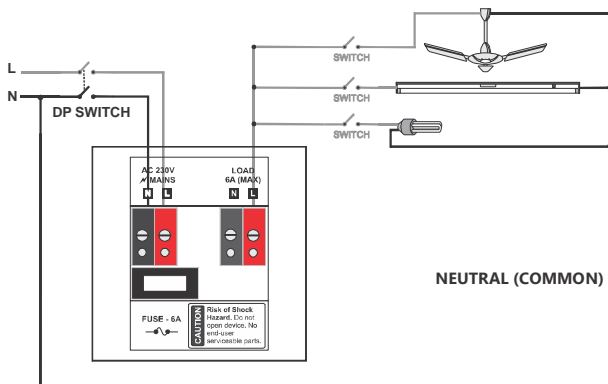


Figure 5: Installation retaining the switches on all appliances

The unit can control up to 600W load.

Recommended Location of Sensor in a room

The diagram below shows the typical location of installation in a room.

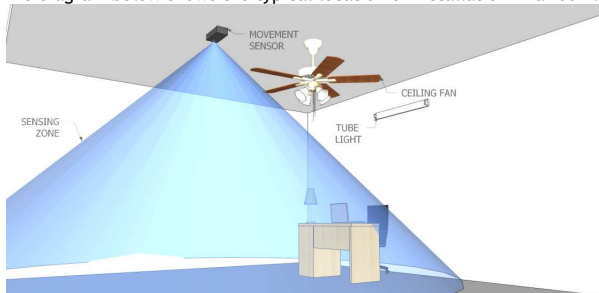


Figure 6: Typical installation in a room

To install retaining existing switches, you may have to draw 3 or 4 wires (depending on load) from the ceiling to the switch board. In the switch board, the wiring can be configured to use existing switches to control the lighting. This allows retaining all existing switches in the switch board for individual control, still being able to save energy.

Timer Selection

| Setting | Capacity |
|---------|--|
| 2 Mins. | Corridors, low usage spaces, or places used by many people. |
| 6 Mins. | Work areas, Office cubicles, very few people presence in the sensor zone |

Power Consumption

Standby mode: 50 mili-watts

Active mode: 350-450 mili-watts

Application Ideas

Energy Saving:

1. Corridors of large buildings with less usage
2. Cubicle Areas, Cabins of offices
3. Conference rooms in office buildings, public buildings
4. Parking lots of Apartment complexes
5. Common Areas of Apartment complexes
6. Rest rooms and Washrooms in hotels, public buildings, office buildings
7. Basement areas of Apartments and basements
8. Basements and narrow corridors of Shopping centers
9. Lab Area, any kind of activity areas in large buildings, factories.

Security:

1. Outdoor lighting in compounds of houses
2. Outdoor lighting in hotels, public buildings
3. In front of Basement door
4. Basements and narrow corridors of Shopping centers

Elder Care/Child Care:

1. Switch on narrow corridor lights as soon as someone enters the zone
2. Switch on bathroom lights automatically on entry, conserve energy when not in use
3. Switch on lights outside the house as someone walks by within the compound
4. Switch on lights in bedroom when someone gets out of bed

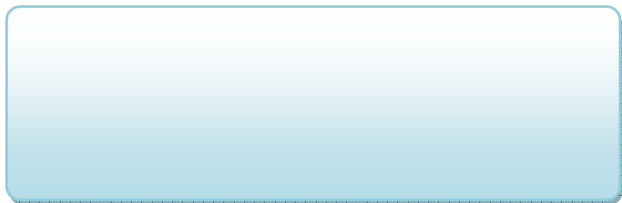
Our Commitment

Green: Technologies that are environment friendly

Economical: Reduce cost of usage

Smart Living: Enhanced living experience

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